## IN THE CLAIMS:

Please cancel Claims 2, 5, 7, 10, 13, 15, 18, 21 and 23 without prejudice or disclaimer of the subject matter presented therein and without conceding the correctness of their rejections. Please amend Claims 1, 3, 4, 6, 8, 9, 11, 12, 14, 16, 17, 19, 20, 22 and 24, and add new Claims 70 to 78 as follows. Claims 25 to 69 are provisionally withdrawn from consideration. The claims, as pending in the subject application, read as follows:

1. (Currently Amended) A method of enabling a selection of a program for viewing in a television system in which title information and characteristics of programs are made available as EPG (Electronic Program Guide) data including at least one program guide list, the method comprising the steps of:

recording a plurality of characteristics attributes associated with each program viewed by said a user in the television system, said attributes comprising first attributes associated with characteristics of said programs and second attributes associated with the viewing of said programs, wherein said first attributes are made available as Electronic Program Guide (EPG) data;

forming sets of said characteristics, attributes, wherein each of said sets comprising comprise at least two of said characteristics attributes; and

associating at least each set with an ordered value representative of user's desire to view a particular program;

wherein upon entry of a user request for a program recommendation,
performing a search of the EPG data for programs with characteristics attributes that best

match include the attributes of said sets, and notifying said user of an availability of programs that best match include the attributes of said sets as program recommendations.

- 2. (Cancelled)
- 3. (Currently Amended) A method according to claim 271, wherein said user[['s]] information is including includes a mood being experienced by said user.
- 4. (Currently Amended) A method according to claim 1, wherein said program recommendations are based on the programs with the greatest number of attributes included in that best match said sets comprising a greatest number of said characteristics.
  - 5. (Cancelled)
- 6. (Currently Amended) A method according to claim [[1]] <u>70</u>, wherein said program recommendations are <u>further</u> based on the programs <u>with the greatest number</u> <u>of attributes included in that best match</u> said sets <u>associated with a highest value as the</u> <u>ordered value and comprising the greatest number of said characteristics</u>.
  - 7. (Cancelled)

- 8. (Currently Amended) A method according to claim 1, wherein said sets of said characteristics attributes is are formed in response to that at least two of programs viewed by said user have the same characteristics shared attributes.
- 9. (Currently Amended) A recommendation system for enabling a selection of a program for viewing in a television system in which title information and characteristics of programs are made available as EPG (Electronic Program Guide) data including at least one program guide list, the recommendation system comprising:

memory means for recording a plurality of characteristics attributes
associated with each program viewed by said a user in the television system, said attributes
comprising first attributes associated with characteristics of said programs and second
attributes associated with the viewing of said programs, wherein said first attributes are
made available as Electronic Program Guide (EPG) data;

processing means for forming sets of said characteristics attributes, wherein each of said sets comprising comprise at least two of said characteristics attributes and for associating each said set with an ordered value representative of said user's desire to view a particular program;

searching means for performing a search of the EPG data for programs with characteristics attributes that include attributes of best match said sets; and

on-screen display means for notifying said user of an availability of programs that best match include the attributes of said sets as program recommendations upon entry of a user request for program recommendations.

- 10. (Cancelled)
- 11. (Currently Amended) A recommendation system according to claim 10 74, wherein said user[['s]] information is including includes a mood being experienced by said user.
- 12. (Currently Amended) A recommendation system according to claim 9, wherein said program recommendations are based on the programs with the greatest number of attributes included in that best match said sets comprising a greatest number of said characteristics.

13. (Cancelled)

- 14. (Currently Amended) A recommendation system according to claim 9 73, wherein said program recommendations are <u>further</u> based on the programs <u>with the</u> <u>greatest number of attributes included in that best match</u> said sets <u>associated with a highest</u> value as the ordered value and comprising the greatest number of said characteristics.
  - 15. (Cancelled)
- 16. (Currently Amended) A recommendation system according to claim
  9, wherein said sets of said characteristics attributes is are formed in response to that at
  least two of programs viewed by said user have the same characteristics shared attributes.

17. (Currently Amended) A computer program product, having a computer readable medium, having a computer program recorded therein, for enabling a selection of a program for viewing in a television system in which title information and characteristics of programs are made available as EPG (Electronic Program Guide) data including at least one program guide list, the computer program product comprising:

computer program code for recording a plurality of characteristics attributes associated with each program viewed by said a user in the television system, said attributes comprising first attributes associated with characteristics of said programs and second attributes associated with the viewing of said programs, wherein said first attributes are made available as Electronic Program Guide (EPG) data;

computer program code for forming sets of said characteristics attributes,

wherein each of said sets comprising comprise at least two of said characteristics attributes;

and

computer program code for associating at least each set with an ordered value representative of user's desire to view a particular program;

wherein upon entry of a user request for a program recommendation, computer program code for performing a search of the EPG data for programs with characteristics attributes that include the attributes of best match said sets, and notifying said user of an availability of programs that include the attributes of best match said sets as program recommendations.

## 18. (Cancelled)

19. (Currently Amended) A computer program product according to claim 1877, wherein said user[['s]] information is including includes a mood being experienced by said user.

20. (Currently Amended) A computer program product according to claim 17, wherein said program recommendations are based on the programs with the greatest number of attributes included in that best match said sets comprising a greatest number of said characteristics.

21. (Cancelled)

22. (Currently Amended) A computer program product according to claim 1776, wherein said program recommendations are <u>further</u> based on the programs with the greatest number of attributes included in that best match said sets associated with a highest value as the ordered value and comprising the greatest number of said characteristics.

23. (Cancelled)

24. (Currently Amended) A computer program product according to claim 17, wherein said sets of said characteristics is attributes are formed in response to

that at least two of programs viewed by said user have the same shared characteristics attributes.

25. (Withdrawn) A method of making recommendations to a user of programs for viewing in a television system wherein;

information regarding programs is made available as EPG (Electronic Program Guide) data including at least one program guide list;

a plurality of characteristics associated with each program previously viewed by said user, and each of a plurality of relationships and corresponding measures of acceptance of said user, with respect to program recommendations made in response to previous program requests, have been recorded;

said method comprising the steps of,

forming sets of said characteristics;

selecting from said relationships at least one relationship, wherein at least one of said selected relationships comprises a highest one of said measures of acceptance; ordering said sets of characteristics using said selected relationship to

produce ordered sets of characteristics;

filtering said ordered sets of characteristics using said selected relationship to produce filtered sets of characteristics;

performing a search of the EPG data for programs with characteristics that best match said filtered sets of characteristics, giving preference to highest filtered sets of characteristics; and notifying said user of an availability of programs that best match said filtered sets as program recommendations upon entry of a user request for program recommendations.

- 26. (Withdrawn) A method as claimed in claim 25, wherein each said set comprising a plurality of said characteristics.
- 27. (Withdrawn) A method. as claimed in claim 25, comprising the further step of updating said measure of acceptance.

28. (Withdrawn) A method as claimed in claim 27, wherein each of said relationships comprises a combination of at least a first type relationship and a second type relationship, said measure of said first type relationship being updated as a result of user selections made over an extended period of time and said measure of said second type relationship being updated as a result of user selections made over a shorter period of time.

- 29. (Withdrawn) A method as claimed in claim 28, wherein each of said relationships comprises a combination of said first type relationship having a maximum measure of acceptance and all second type relationships.
- 30. (Withdrawn) A method as claimed claim 25, wherein said relationships are user specific.

31. (Withdrawn) A method as claimed claim 25, wherein each, of said sets of characteristics has associated therewith a frequency of occurrence of each said set in programs previously viewed by said user.

32. (Withdrawn) A method as claimed claim 25, wherein each of said sets of characteristics has associated therewith a date, said date being indicative of when each said set occurred in programs previously viewed by said user.

33. (Withdrawn) A method as claimed in claim 25 or 26, wherein each of said relationships are defined by a filtering and an ordering command.

34. (Withdrawn) A method as claimed in claim 33; wherein said filtering command is selected from the list including TimeSlot Filter, WeightFactor Filter, Popularity Filter, Urgency Filter and LifeStyle Filter as herein defined.

35. (Withdrawn) A method as claimed in claim 34, wherein:

said TimeSlot Filter depends on a day or time being suitable that for which recommendations are requested, said day or time being comprised in said sets of characteristics and indicative of when each said set occurred in programs previously viewed by said user;

said WeightFactor Filter depends on a frequency of occurrence of each said set in programs previously viewed by said user,

said Popularity Filter depends on a popularity value being comprised in said sets of characteristics and indicative that each program previously viewed by said user corresponds to a popular event/program.

said Urgency Filter depends on an urgency value being comprised in said sets of characteristics and indicative that each program previously viewed by said user corresponds to an urgent program; and

said LifeStyle Filter depends on a lifestyle value being comprised in said sets of characteristics and indicative that each program previously viewed by said user corresponds to a type of a lifestyle.

36. (Withdrawn) A method as claimed in claim 33, wherein said ordering command is selected from the list including WeightFactor Ordering, Recency Ordering, WeightRecency Ordering as herein defined.

37. (Withdrawn) A method as claimed in claim 36, wherein: said WeightFactor Ordering arranges said sets of characteristics by descending a frequency of occurrence of each said set in programs previously viewed by said user;

said Recency Ordering arranges said sets of characteristics by descending a date being comprised in said sets of characteristics and indicative of when each said set occurred in programs previously viewed by said user; and

said WeightReceney Ordering arranges said sets of characteristics by descending said frequency of occurrence, while preferring set of characteristics having most recent date when said frequency are the same.

38. (Withdrawn) A method as claimed in claim 26, wherein each of said relationships are defined by filtering and an ordering command, said ordering command being selected from the list including WeightFactor Ordering, Specificity Ordering, Generality Ordering, Recency Ordering, WeightRecency Ordering, Specificity Weight Ordering, Generality Weight Ordering, Recency Specificity Ordering, Specificity Recency Ordering and Generality Recency Ordering as herein defined.

39. (Withdrawn) A method as claimed in claim 38, wherein:

said WeightFactor Ordering arranges said sets of characteristics by descending a frequency of occurrence of each said set in programs previously viewed by said user;

said Specificity Ordering arranges said sets of characteristics by descending a specificity level corresponding to the number of said characteristics being comprised in said set;

said Generality Ordering arranges said sets of characteristics by ascending a specificity level;

said Recency Ordering arranges said sets of characteristics by descending a date being comprised in said sets of characteristics and indicative of when each said set occurred in programs previously viewed by said user;

said WeightRecency Ordering arranges said sets of characteristics by descending said frequency of occurrence, while giving preference to set of characteristics having most recent data when said frequency are the same;

said Specificity Weight Ordering arranges said sets of characteristics by descending said specificity level, while giving preference to set of characteristics having higher frequency of occurrence when said specificity level are the same;

said Recency Specificity Ordering arranges said sets of characteristics by descending said date, while giving preference to set of characteristics having higher specificity level when said date are the same;

said Specificity Recency Ordering arranges said sets of characteristics by descending said specificity level, while giving preference to set of characteristics having most recent date when said specificity level are the same; and

said Generality Recency Ordering arranges said sets of characteristics by ascending said specificity level, while giving preference to set of characteristics having most recent date when said specificity level are the same.

40. (Withdrawn) A recommendation system for malting recommendations to a user of programs for viewing in a television system in which information regarding programs is made available as EPG (Electronic Program Guide) data including at least one program guide list, the system comprising:

a first memory means for recording a plurality of characteristics associated with each program previously viewed by said user;

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a second memory means for recording each of a plurality of relationships and corresponding measures of acceptance of said user, with respect to program recommendations made in response to previous program requests;

processing means for forming sets of said characteristics;

task selection means for selecting from said relationships at least one relationship, wherein at least one of said selected relationships comprises a highest one of said measures of acceptance;

ordering means for ordering said sets of characteristics using said selected relationship to produce ordered sets of characteristics;

filtering means for filtering said ordered sets of characteristics using said selected relationship to produce filtered sets of characteristics;

searching means performing a search of the EPG data for programs with characteristics that best match said filtered sets of characteristics, giving preference to highest filtered sets of characteristics; and

on-screen display means for notifying said user of an availability of programs that best match said filtered sets as program recommendations upon entry of a user request for program recommendations.

- 41. (Withdrawn) A recommendation system as claimed in claim 40, wherein each said set comprising a plurality of said characteristics.
- 42. (Withdrawn) A recommendation system as claimed in claim 40, further comprising a update means for updating said measures of acceptance.

43. (Withdrawn) A recommendation system as claimed in claim 42, wherein each of said relationships comprises a combination of at least a 'first type relationship and a second type relationship, said measure of said first type relationship being updated as a result of user selections made over an extended period of time and said measure of said second type relationship being updated as a result of user selections made over a shorter period of time.

44. (Withdrawn) A recommendation system as claimed in claim 43, wherein each of said relationships comprises a combination of said first type relationship having a maximum measure of acceptance and all second type relationships.

45. (Withdrawn) A recommendation system as claimed in claim 40, wherein said relationships are user specific.

46. (Withdrawn) A recommendation system as claimed in claim 40, wherein each of said sets of characteristics has associated therewith a frequency of occurrence of each said set in programs previously viewed by said user.

47. (Withdrawn) A recommendation system as claimed in claim 40, wherein each of said sets of characteristics has associated therewith a date, said date being indicative of when each said set occurred in programs previously viewed by said user.

48. (Withdrawn) A recommendation system as claimed in claim 40 or 41, wherein each of said relationships are defined by a filtering and a ordering command.

49. (Withdrawn) A recommendation system as claimed in claim 48, wherein said filtering command is selected from the list including TimeSlot Filter, WeightFactor Filter, Popularity Filter, Urgency Filter and LifeStyle Filter, as herein defined

50. (Withdrawn) A recommendation system as claimed in claim 49, wherein:

said TimeSlot Filter depends on a day or time being suitable that for which recommendations are requested, said day or time being comprised in said sets of characteristics and indicative of when each said set occurred in programs previously viewed by said user;

said WeightFactor Filter depends on a frequency of occurrence of each said set in programs previously viewed by said user,

said Popularity Filter depends on a popularity value being comprised in said sets of characteristics and indicative that each program previously viewed by said user corresponds to a popular event/program.

said Urgency Filter depends on an urgency value being comprised in said sets of characteristics and indicative that each program previously viewed by said user corresponds to an urgent program; and

said LifeStyle Filter depends on a lifestyle value being comprised in said sets of characteristics and indicative that each program previously viewed by said user corresponds to a type of a lifestyle.

- 51. (Withdrawn) A recommendation system as claimed in claim 48, wherein said ordering command is selected from the list including WeightFactor Ordering, Recency Ordering, WeightRecency Ordering as herein defined.
- 52. (Withdrawn) A recommendation system as claimed in claim 51, wherein:

said WeightFactor Ordering arranges said sets of characteristics by descending a frequency of occurrence of each said set in programs previously viewed by said user;

said Recency Ordering arranges said sets of characteristics by descending a date being comprised in said sets of characteristics and indicative of when each said set occurred in programs previously viewed by said user; and

said WeightRecency Ordering arranges said sets of characteristics by descending said frequency of occurrence, while preferring set of characteristics having most recent date when said frequency are the same.

53. (Withdrawn) A method as claimed in claim 41, wherein each of said relationships are defined by filtering and an ordering command, said ordering command being selected from the list including WeightFactor Ordering, Specificity Ordering,

Generality Ordering, Recency Ordering, WeightRecency Ordering, Specificity Weight Ordering, Generality Weight Ordering, Recency Specificity Ordering, Specificity Recency Ordering and Generality Recency Ordering as herein defined.

54. (Withdrawn) A recommendation system as claimed in claim 53, wherein:

said WeightFactor Ordering arranges said sets of characteristics by descending a frequency of occurrence of each said set in programs previously viewed by said user;

said Specificity Ordering arranges said sets of characteristics by descending a specificity level corresponding to the number of said characteristics being comprised in said set;

said Generality Ordering arranges said sets of characteristics by ascending a specificity level;

said Recency Ordering arranges said sets of characteristics by descending a date being comprised in said sets of characteristics and indicative of when each said set occurred in programs previously viewed by said user;

said WeightRecency Ordering arranges said sets of characteristics by descending said frequency of occurrence, while giving preference to set of characteristics having roost recent data when said frequency are the same;

said Specificity Weight Ordering arranges said sets of characteristics by descending said specificity level, while giving preference to set of characteristics having higher frequency of occurrence when said specificity level are the same;

said Recency Specificity Ordering arranges said sets of characteristics by descending said date, while giving preference to set of characteristics having higher specificity level when said date are the same;

said Specificity Recency Ordering arranges said sets of characteristics by descending said specificity level, while giving preference to set of characteristics having most recent date when said specificity level are the same; and

said Generality Recency Ordering arranges said sets of characteristics by ascending said specificity level, while giving preference to set of characteristics having most recent date when said specificity level are the same.

55. (Withdrawn) A computer program product, having a computer readable medium, having a computer program recorded therein, for making recommendations to a user of programs for viewing in a television system wherein:

information regarding programs is made available as EPG (Electronic Program Guide) data including at least one program guide list;

a plurality of characteristics associated with each program previously viewed by said user, and each of a plurality of relationships and corresponding measures of acceptance of said user, with respect to program recommendations made in response to previous program requests, have been recorded;

said computer program product comprising: code for forming sets of said characteristics; code for selecting from said relationships at least one relationship, wherein at least one of said selected relationships comprises a highest one of said measures of acceptance;

code for ordering said sets of characteristics using said selected relationship to produce ordered sets of characteristics;

code for filtering said ordered sets of characteristics using said selected relationship to produce filtered sets of characteristics;

code for performing a search of the EPG data for programs with characteristics that best match said filtered sets of characteristics, giving preference to highest filtered sets of characteristics; and

code for notifying said user of an availability of programs that best match said filtered sets as program recommendations upon entry of a user request for program recommendations.

- 56. (Withdrawn) A computer program product as claimed in claim 55, wherein each said set comprising a plurality of said characteristics.
- 57. (Withdrawn) A computer program product as claimed in claim 55, further comprising code for updating said measure of acceptance.
- 58. (Withdrawn) A computer program product as claimed in claim 57, wherein each of said relationships comprises a combination of at least a first type relationship and a second type relationship, said measure of said first type relationship

being updated as a result of user selections made over an extended period of time and said measure of said second type relationship being updated as a result of user selections made over a shorter period of time.

- 59. (Withdrawn) A computer program product as claimed in claim 58, wherein each of said relationships comprises a combination of said first type relationship having a maximum measure of acceptance and all second type relationships.
- 60. (Withdrawn) A computer program product as claimed in claim 55, wherein said relationships are user specific.
- 61. (Withdrawn) A computer program product as claimed in claim 55, wherein each of said sets of characteristics has associated therewith a frequency of occurrence of each said set in programs previously viewed by said user.
- 62. (Withdrawn) A computer program product as claimed in claim 55, wherein each of said sets of characteristics has associated therewith a date, said date being indicative of when each said set occurred in programs previously viewed by said user.
- 63. (Withdrawn) A computer program product as claimed in any one of claims 55 or 56, wherein each of said relationships are defined by a filtering and a ordering command.

64. (Withdrawn) A computer program product as claimed in claim 63, wherein said filtering command is selected from the list including TimeSlot Filter, WeightFactor Filter, Popularity Filter, Urgency Filter and LifeStyle Filter as herein defined.

65. (Withdrawn) A computer program product as claimed in claim 64, wherein:

said TimeSlot Filter depends on a day or time being suitable that for which recommendations are requested, said day or time being comprised in said sets of characteristics and indicative of when each said set occurred in programs previously viewed by said user;

said WeightFactor Filter depends on a frequency of occurrence of each said set in programs previously viewed by said user, said Popularity Filter depends on a popularity value being comprised in said sets of characteristics and indicative that each program previously viewed by said user corresponds to a popular event/program.

said Urgency Filter depends on an urgency value being comprised in said sets of characteristics and indicative that each program previously viewed by said user corresponds to an urgent program; and

said LifeStyle Filter depends on a lifestyle value being comprised in said sets of characteristics and indicative that each program previously viewed by said user corresponds to a type of a lifestyle.

66. (Withdrawn) A computer program product as claimed in claim 63, wherein said ordering command is selected firm the list including WeightFactor Ordering, Recency Ordering, WeightRecency Ordering as herein defined.

67. (Withdrawn) A computer program product as claimed in claim 66, wherein:

said WeightFactor Ordering arranges said sets of characteristics by descending a frequency of occurrence of each said set in programs previously viewed by said user;

said Recency Ordering arranges said sets of characteristics by descending a date being comprised in said sets of characteristics and indicative of when each said set occurred in programs previously viewed by said user; and

said WeightRecency Ordering arranges said sets of characteristics by descending said frequency of occurrence, while preferring set of characteristics having most recent date when said frequency are the same.

68. (Withdrawn) A computer program product as claimed in claim 66, wherein each of said relationships are defined by filtering and an ordering command, said ordering command being selected froze the list including Weightfactor Ordering, Specificity Ordering, Generality Ordering, Recency Ordering, WeightRecency Ordering, Specificity Weight Ordering, Generality Weight Ordering, Recency Specificity Ordering, Specificity Recency Ordering and Generality Recency Ordering as herein defined.

69. (Withdrawn) A computer program product as claimed in claim 68, wherein:

said WeightFactor Ordering arranges said sets of characteristics by descending a frequency of occurrence of each said set in programs previously viewed by said user;

said Specificity Ordering arranges said sets of characteristics by descending a specificity level corresponding to the number of said characteristics being comprised in said set;

said Generality Ordering arranges said sets of characteristics by ascending a specificity level;

said Recency Ordering arranges said sets of characteristics by descending a date being comprised in said sets of characteristics and indicative of when each said set occurred in programs previously viewed by said user;

said WeightRecency Ordering arranges said sets of characteristics by descending said frequency of occurrence, while giving preference to set of characteristics having most recent data when said frequency are the same;

said Specificity Weight Ordering arranges said sets of characteristics by descending said specificity level, while giving preference to set of characteristics having higher frequency of occurrence when said specificity level are the same;

said Recency Specificity Ordering arranges said sets of characteristics by descending said date, while giving preference to set of characteristics having higher specificity level when said date are the same;



said Specificity Recency Ordering arranges said sets of characteristics by descending said specificity level, while giving preference to set of characteristics having most recent date when said specificity level are the same; and

said Generality Recency Ordering arranges said sets of characteristics by ascending said specificity level, while giving preference to set of characteristics having most recent date when said specificity level are the same.

70. (New) A method according to claim 1, comprising the further step of:

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associating a value with each set, said value representing the number of programs viewed by said user including the attributes in said set, wherein said search is performed for programs with attributes that include the attributes of the set with a highest value.

- 71. (New) A method according to claim 1, wherein said second attributes associated with the viewing of said programs include user information, and said method further comprises the step of combining current user information with said EPG data.
- 72. (New) A method according to claim 1, wherein said second attributes include one or more of time of day and day of week information.

73. (New) A recommendation system according to claim 9, further comprising:

means for associating a value with each set, said value representing the number of programs viewed by said user including the attributes in said set, wherein said search is performed for programs with attributes that include the attributes of the set with a highest value.

- 74. (New) A recommendation system according to claim 9, wherein attributes associated with the viewing of said programs include user information, and when performing said search, current user information is combined with said EPG data.
- 75. (New) A recommendation system according to claim 9, wherein said second attributes includes one or more of time of day and day of week information.
- 76. (New) A computer program according to claim 17, further comprising:

computer program code for associating a value with each set, said value representing the number of programs viewed by said user including the attributes in said set, wherein said search is performed for programs with attributes that include the attributes of the set with a highest value.

77. (New) A computer program according to claim 17, wherein attributes associated with the viewing of said programs include user information, and when performing said search, current user information is combined with said EPG data.

78. (New) A computer program according to claim 17, wherein said second attributes include one or more of time of day and day of week information.